

Math 211
Quiz 04A

R 25 Jul 2019

Your name : _____

Exercise

(5 pt) Evaluate the following integral.

$$\int \sin^3 t \, dt.$$

Hint: View the integral as $\int (\sin^2 t)(\sin t) dt$. After an integration, use the identity $\sin^2 t + \cos^2 t = 1$. You should get an equation involving the given integral on both the left and the right. Now treat the integral like an unknown variable (e.g., x) and solve for it.